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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/767,257	01/30/2004	Bjarne Frederiksen	033452-011	4864	
21839 75	90 08/25/2006	EXAMINER			
BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404			JIANG, CHEN WEN		
	NDRIA, VA 22313-1404		ART UNIT	PAPER NUMBER	
			3744		
				DATE MAILED: 08/25/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/767,257	FREDERIKSEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Chen-Wen Jiang	3744			
The MAILING DATE of this communication	appears on the cover sheet wit	th the correspondence address			
Period for Reply		· • · · · · · · · · · · · · · · · · · ·			
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory pe Failure to reply within the set or extended period for reply will, by si Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re riod will apply and will expire SIX (6) MON tatute, cause the application to become AB/	CATION. poly be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 1	5 May 2006.				
2a)⊠ This action is FINAL . 2b)□	This action is FINAL . 2b) This action is non-final.				
3) Since this application is in condition for allo	wance except for formal matte	ers, prosecution as to the merits is			
closed in accordance with the practice und	er Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-20</u> is/are pending in the applica	tion.				
4a) Of the above claim(s) 2,6,7,10,12 and 1	15-20 is/are withdrawn from co	nsideration.			
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,3-5,8,9,11,13 and 14</u> is/are reje	cted.				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction ar	nd/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exan	niner.				
10)⊠ The drawing(s) filed on <u>30 January 2004</u> is/	· ·	ojected to by the Examiner.			
Applicant may not request that any objection to					
Replacement drawing sheet(s) including the co	rrection is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. §	119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority docum	ents have been received.				
Certified copies of the priority docum	nents have been received in Ap	pplication No			
Copies of the certified copies of the	priority documents have been	received in this National Stage			
application from the International Bu	reau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a	list of the certified copies not	received.			
Attachment(s)					
1) Notice of References Cited (PTO-892)		ummary (PTO-413)			
 Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/SE)/Mail Date Iformal Patent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:				

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Species IV (Fig.8, claims 1,3-5,8,9,11,13 and 14) in the reply-filed on 5/15/2006 is acknowledged.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1,3-5,8,9,11,13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over D64646 (NPL of IDS filed 1/30/2004) in view of Danfoss (EP 923,013 and NPL of IDS 1449 filed 1/30/2004).

In regard to claims 1,8,9 and 11, D64646 discloses cooling and heating ceiling system in combination with dew-point sensor. The system comprises heat exchangers, dew-point sensor B1 (monitor device) and valve with continuous control with controller N1. There are four methods for preventing dew formation on the cooling ceiling: passive de-point monitoring, "central"

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active dew-point monitoring with passive room dew-point monitoring, active room dew-point monitoring and "central" active dew-point monitoring with active room dew-point monitoring. D64646 discloses the invention substantially as claimed. The dew-point sensor senses the humidity change and provides ON/OFF signal (including closed state) to the controller to control the valve in the passive condensate monitoring. Danfoss discloses thermal valve drive and magnetic valve drive. However, D64646 does not disclose the mechanical valve adjustment mechanism. Danfoss discloses mechanical valve adjustment mechanism in the same field of endeavor for the purpose of controlling coolant. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the apparatus of D64646 with a valve adjustment mechanism in view of Danfoss so as to control the coolant. The teaching of monitoring device about the condensation, controller and cooling ceiling installation are disclosed by D64646 and the mechanical valve adjustment is disclosed by Danfoss.

In regard to claim 3, Danfoss disclose different sensor with valve control device as claimed, e.g.; integrated sensor, remote sensor, motor/gear arrangement, position sensor and tappet.

In regard to claims 4 and 5, Danfoss discloses rotary motor 19,119 and gear 17,117.

In regard to claim 13, D-64646 discloses a heating system is provided to the controlled valve (page 6).

In regard to claims 13 and 14, Danfoss (NPL, page 1) discloses heating surface, valve RA-N connected to valve RA-C.

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Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chen-Wen Jiang whose telephone number is (571) 272-4809. The examiner can normally be reached on Monday-Thursday from 8:00 to 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chen-Wen Jiang Primary Examiner

